



ECM BIOFILMS, INC.

**ECM MASTERBATCH PELLETS
ECM6.0701**

MATERIAL SAFETY DATA SHEET

(1) PRODUCT AND COMPANY IDENTIFICATION

Validation Date: 10-JUL-07

Print Date: 10-JUL-07

Product name: ECM MasterBatch Pellets ECM6.0701
Supplier: ECM BioFilms, Inc.
1 Victoria Square – Suite 304
Painesville, Ohio 44077

24-Hour Emergency (Call Collect): (440) 354-5318
Product and MSDS Information: (440) 350-1400

(2) COMPOSITION/INFORMATION ON INGREDIENTS

Ethylene-Vinyl Acetate Copolymer with additive ingredients of Organoleptic-Organic chemical names/cultured colloids, natural fiber.

CAS No. for Carrier Resin: 24937-78-8

Harmonized System-Based Schedule B Code for ECM MasterBatch Pellets ECM6.0701 is 3901.30.6000

This product is not formulated to contain ingredients that have exposure limits established by US agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparation directives. See Section 14 for a regulatory analysis of the ingredients.

(3) HAZARDS IDENTIFICATION

PHYSICAL STATE AND APPEARANCE: Solid.

EMERGENCY OVERVIEW: Irritating vapors to respiratory system and eyes may form when product is processed at high temperature. Molten or heated material in skin contact can cause severe burns.

ROUTES OF ENTRY: *For Hot Material:* Skin contact. Eye contact. Inhalation.

POTENTIAL ACUTE HEALTH EFFECTS:

Eyes: This product is not known to cause eye irritation. However, as with any chemical, some sensitive individuals may experience eye irritation upon contact. **Heated Product:** Eye contact can cause serious thermal burns. Vapors formed when polymer is heated may be irritating to the eye.

Skin: No known acute effects of this product resulting from skin contact. However, in light of good industrial hygiene, exposure to any chemical should be kept to a minimum. **Heated Product:** skin contact can cause serious thermal burns.

Inhalation: Negligible at room temperature. Nuisance dusts can be irritating to the upper respiratory tract. Irritating vapors may form when the product is processed at high temperatures.

Ingestion: No effects are expected for ingestion of small amounts.

POTENTIAL CHRONIC HEALTH EFFECTS: Product form makes chronic effects unlikely.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE: None known.

OVEREXPOSURE/SIGNS/SYMPTOMS: No information available.

(4) FIRST AID MEASURES

EYE CONTACT: Rinse with water for a few minutes. Seek medical attention if necessary.

SKIN CONTACT: No known effect on skin contact, rinse with water for a few minutes. **Heated Product:** For serious burns from heated product, get medical attention.

INHALATION: Allow the victim to rest in a well-ventilated area.

INGESTION: No First Aid procedures are needed.

NOTES TO PHYSICIAN: Not available.

(5) FIRE FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: May be combustible at high temperatures.

AUTO-IGNITION TEMPERATURE: Not available.

FLASH POINTS: not available.

FLAMMABLE LIMITS: Not available.

PRODUCTS OF COMBUSTION: Carbon oxides (CO and CO₂) and soot.

EXTINGUISHING MEDIA: Carbon dioxide foam, dry chemical and water fog. Cool water spray may be used to flush spills away from exposure. Prevent run off from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

(6) ACCIDENTAL RELEASE MEASURES

SMALL SPILL AND LEAK: Pellets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Sweep, shovel, or vacuum material into clean containers.

LARGE SPILL AND LEAK: Our database contains no additional information in case of a spill and/or a leak of the product. Use a shovel to put the material into a convenient waste disposal container.

(7) HANDLING AND STORAGE

HANDLING: Handling of plastic may form nuisance dust. Protect personnel.

STORAGE: Keep container dry. Keep in a cool place. Ground all equipment containing material. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

(8) PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult product data sheet for specific use and details.

APPEARANCE AND ODOR:	Opaque white to off-white pellets; odorless
BOILING POINT:	N/A
SPECIFIC GRAVITY:	N/D
VAPOR PRESSURE:	N/A
MELTING POINT:	N/A
AIR DENSITY:	N/A
EVAPORATION RATE:	N/A
SOLUBILITY IN WATER:	Negligible

(9) STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: The product is stable. Avoid prolonged exposure to temperatures above 300 degrees C (570 F).

CONDITIONS OF INSTABILITY: No additional remarks.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES: Avoid contact with strong acids & oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products are carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: No.

(10) TOXICOLOGICAL INFORMATION

Toxicity to Animals:	LD50: Not available. LC50: Not available.
Chronic Effects on Humans:	Carcinogenic Effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Other Toxic Effects on Humans:	Slightly hazardous in case of eye contact (irritant), of inhalation (lung irritant). Non-irritant for skin.
Special Remarks on Toxicity to Animals:	Not available.
Special Remarks on Chronic Effects on Humans:	Not available.
Special Remarks on Other Toxic Effects on Humans:	Not available

(11) ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Biodegradable.

ECOTOXICITY TESTING: (RAL GZ 251) VALID non-toxic / Environmentally safe.

ECOLOGICAL ASSESSMENT OF PLASTICS USING PRODUCT AS ADDITIVE AVAILABLE UPON REQUEST:
Contact ECM BioFilms, Inc. at 440-350-1400

(12) DISPOSAL CONSIDERATIONS

WASTE INFORMATION: Transfer to an approved disposal area in accordance with federal, state, and local regulations.

WASTE STREAM: Not available.

CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.

(13) TRANSPORT INFORMATION

Regulatory Information	UN Number	Proper Shipping Name	Class	Packing Group	Label	Additional Information
DOT Class.	Not regulated	Not applicable	Not applicable	Not applicable	-	-
TDG Class.	Not regulated	Not applicable	Not applicable	Not applicable	-	-
IMDG Class.	Not regulated	Not applicable	Not applicable	Not applicable	-	-
IATA-DGR Class.	Not regulated	Not applicable	Not applicable	Not applicable	-	-

(14) REGULATORY INFORMATION

HCS Classification: No components controlled under the HCS (United States).

U.S. Federal Regulations: TSCA 9(b) inventory: Components listed.
 SARA 302/304/311/312 extremely hazardous substances: No components listed.
 SARA 302/304 emergency planning and notification: No components listed.
 SARA 302/304/311/312 hazardous chemicals: No components listed.
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No components listed.
 CARA 313 toxic chemical notification and release reporting: No components listed.
 Clean Water Act (CWA) 307: No components listed.
 Clean Water Act (CWA) 311: No components listed.
 Clean Air Act (CAA) 112 accidental release prevention: No components listed.
 Clean Air Act (CAA) 112 regulated flammable substances: No components listed.
 Clean Air Act (CAA) 112 regulated toxic substances: No components listed.

State Regulations: No components were found.

California Prop. 65: No components listed.

CONEG: No components listed.

International Lists: No components were found.

WHMIS (Canada): No components controlled under WHMIS

Canadian EPA DSL: Components listed.

EINECS: Not available.

DSCL (EEC): No components controlled under DSCL (Europe).

Japanese ENCS: Components listed.

Australian AICS: Components listed.

Switzerland Giftliste 1: No components listed.

Korean ECL: Components listed.

Phillippines PICCS: Components listed.

China IECSC: Components listed.

New Zealand NZIoC: Components listed.

(15) OTHER INFORMATION

Hazardous Material Information System (USA):	Health: 0; Fire Hazard: 1; Reactivity: 0; Personal Protection: B
National Fire Protection Assn. (USA):	Fire Hazard: 1; Health: 0; Reactivity: 0; Specific Hazard: 0
References:	Not available
Other Special Considerations:	Not available
Date of issue:	8/5/2005

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

N/D = NOT DETERMINED

N/A = NOT APPLICABLE

NOTICE: Further information is available pertaining to the ECM plastic application. This information was originally prepared by CHEMRISK / a service of McLaren/Hart, Inc. with additional information added by knowledgeable personnel of ECM BioFilms, Inc.

For an Ecological Assessment of plastic products manufactured with ECM MasterBatch Pellets contact:

ECM BioFilms, Inc.

Phone: 440-350-1400

Fax: 440-350-1444

Email: biodeg@ecmbiofilms.com